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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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| Complete if Known | | | | |
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| Application Number | 10/643,831 | | | |
| Filing Date | August 19, 2003 | | | |
| First Named Inventor | McMurray | | | |
| Art Unit | 3644 | | | |
| Examiner Name | Charles T. Jordan | | | |
| Attorney Docket Number | R087.1270.1 | | | |

| | U. S. PATENT DOCUMENTS | | | | | | | |
|---|------------------------|--|--------------------------------|--|--|--|--|--|
| Examiner Initials* | Cite No.1 | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevan Figures Appear | | | |
| | | Number-Kind Code ^{2 (F Innown)} | | D | | | | |
| 17N | , A | ^{US-} 3,961,580 | 06/08/1976 | Burnett et al. | | | | |
| 110 | В | ^{US-} 5,150,909 | 09/29/1992 | Fitzwater | | | | |
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|--------------------|-------------|---|------------------|--|---|----|
| Examiner Initials* | Cite No. | | Publication Oate | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages | Γ. |
| | | Country Code ³ "Number ⁴ "Kind Code ⁵ (if known) | MM-DD-YYYY | | Or Relevant Figures Appear | T° |
| | C | FR 812 680 A | 05/14/1937 | Societe Brevets | | |
| | D | FR 1 257 337 A | 03/13/1961 | Devaux | | |
| | E | DE 87 07 244 U | 09/10/1987 | Muller et al. | | |
| | F | EP 0 262 574 A | 04/06/1988 | Branscomb | | |
| | G | DE 198 32 034 A | 01/21/1999 | Eley Ltd. | | L |
| | | | | | | |

| Examiner Signature | Date Considered / 2/1/ | 106 |
|-----------------------|------------------------|-----|

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|-----------------------|-------------|--|--------------------------------|--|---|
| 11/ | A | US- 2,978,742 | 04/11/1961 | Bliemeister | - |
| 1 | В | ^{US-} 3,062,145 | 11/06/1962 | Morgan et al. | |
| | С | US- 3,677,669 | 07/18/1972 | Bliemeister | |
| | D | ^{US-} 4,718,348 | 01/12/1988 | Ferringo | |
| | E | ^{US-} 4,892,861 | 01/09/1990 | Ray | |
| T | F | ^{US-} 4,920,888 | 05/01/1990 | Luther et al. | |
| 17 | G | ^{US-} 5,127,332 | 07/07/1992 | Corzine et al. | |
| V | Н | ^{US-} 5,167,697 | 12/01/1992 | Koumura et al. | |
| 170 | ı | ^{US-} 5,187,325 | 02/16/1993 | Garvison | |
| | | US- | | | |

| | | FORE | IGN PATENT DOCU | MENTS | | |
|--|--------------|--|---------------------|--|---|---|
| | Cite No.1 | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages | T |
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